

Part 573 Safety Recall Report

20V-355

Manufacturer Name : BMW of North America, LLC

Submission Date : JUN 15, 2020

NHTSA Recall No. : 20V-355

Manufacturer Recall No. : Toyota: 20TA09



Manufacturer Information :

Manufacturer Name : BMW of North America, LLC

Address : P.O. Box 1227

Westwood NJ 07675-1227

Company phone : 18005257417

Population :

Number of potentially involved : 2,779

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2019-2020 BMW 330i xDrive, M340i, M340i xDrive

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Approximately 1,676 vehicles are equipped from start-of-production up to a modification of the steering gear tie rods.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the production range of potentially affected vehicles.

Recall component difference to non-recall component: The steering gear tie rods being recalled are an earlier design configuration.

Production Dates : OCT 30, 2018 - JUL 05, 2019

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 2 : 2019-2019 BMW Z4 sDrive30i

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 1,050 vehicles are equipped from start-of-production up to a modification of the steering gear tie rods.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the production range of potentially affected vehicles.

Recall component difference to non-recall component: The steering gear tie rods being recalled are an earlier design configuration.

Production Dates : NOV 05, 2018 - FEB 26, 2019

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2020-2020 BMW X3M

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Approximately 27 vehicles are equipped from start-of-production up to a modification of the steering gear tie rods.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the production range of potentially affected vehicles.

Recall component difference to non-recall component: The steering gear tie rods being recalled are an earlier design configuration.

Production Dates : MAR 11, 2019 - APR 09, 2019

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2020-2020 BMW X4M

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Approximately 23 vehicles are equipped from start-of-production up to a modification of the steering gear tie rods.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the production range of potentially affected vehicles.

Recall component difference to non-recall component: The steering gear tie rods being recalled are an earlier design configuration.

Production Dates : MAR 11, 2019 - APR 10, 2019

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 5 : 2020-2020 Toyota Supra

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : Approximately 3 vehicles are equipped from start-of-production up to a modification of the steering gear tie rods.

Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the production range of potentially affected vehicles.

Recall component difference to non-recall component: The steering gear tie rods being recalled are an earlier design configuration.

Production Dates : FEB 09, 2019 - FEB 27, 2019

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : This safety recall involves the steering gear tie rods of an earlier design configuration. In driving conditions consisting of very high temperatures and excessive vibration (e.g., due to poor road conditions), a tie rod could experience damage in the area of the kink groove due to excessive bending loads. Over time, this damage could cause the kink groove portion of the tie rod to fracture.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the tie rod became damaged, this could affect vehicle handling and control, and increase the risk of a crash.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : Steering Gear Tie Rod

Component Description : Steering Gear Tie Rod

Component Part Number : 6887401 / 6887403

Supplier Identification :

Component Manufacturer

Name : Thyssenkrupp Presta

Address : Essanestrasse 10
Eschen FOREIGN STATES 9492

Country : Liechtenstein

Chronology :

In December 2018, a broken tie rod was noticed during a test drive. An engineering review was initiated. The tie rod design and test results indicated that all requirements were satisfied.

Further analyses of test vehicle revealed that the tie rod was not properly unfastened during a repair of the damper. The tie rod was inadvertently bent during this repair which led to the fracture in a subsequent test drive.

As a result of this finding, and to prevent the possibility of this type of tie rod damage occurring during a service procedure in production vehicles, the radius of the tie rod's kink groove was increased to reduce the possibility of a local stress concentration. The modified tie rod was implemented into vehicle production in 2019 based upon the specific vehicle model.

In November 2019, BMW was informed about a single non-US field incident involving a vehicle equipped with the earlier version of the tie rod. The relevant parts were requested and analyzed with the supplier.

In early 2020, BMW was informed about further non-US field incidents. These damaged parts were also

requested and analyzed. Process data records have been analyzed and lab tests were conducted. The extensive test program finished at the end of May 2020 and the results showed that very high temperatures and excessive vibration led to excessive bending loads of the tie rod.

Vehicle assembly information and supplier production records were reviewed to determine the number and production date range of potentially affected vehicles.

On June 8, 2020, BMW Group decided to conduct a voluntary recall for potentially affected vehicles.

BMW Group has not received any reports, nor is BMW Group otherwise aware, of any injuries related to this issue.

Description of Remedy :

Description of Remedy Program : The tie rods of an earlier design configuration will be replaced.

If this condition were to occur to a potentially affected vehicle prior to the recall, the remedy would be covered by the BMW and Toyota New Vehicle Limited Warranty program. Therefore, reimbursement for a pre-notification remedy re Part 573.13 and Part 577.11 is not necessary.

How Remedy Component Differs from Recalled Component : Recalled Component: steering gear tie rod; p/n (6887401 – 3 Series, X3M, X4M), (6887403 – Z4, Supra).

Identify How/When Recall Condition was Corrected in Production : NR

Recall Schedule :

Description of Recall Schedule : Notification to dealers is planned to begin and end on June 15, 2020.
Notification to owners is planned to begin and end on August 7, 2020.

Planned Dealer Notification Date : JUN 15, 2020 - JUN 15, 2020

Planned Owner Notification Date : AUG 07, 2020 - AUG 07, 2020

* NR - Not Reported